



Hardware Information

For Units

4210D 1MP / 6210D 2MP

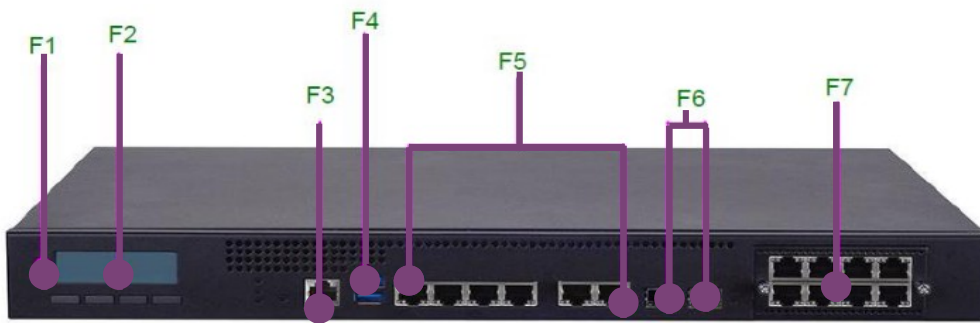
Published: 2019-07-11

Table of Contents

Product Information

- Physical Hardware-----3
- Product Matrix-----4, 5, 6
- Additional Package Content-----6

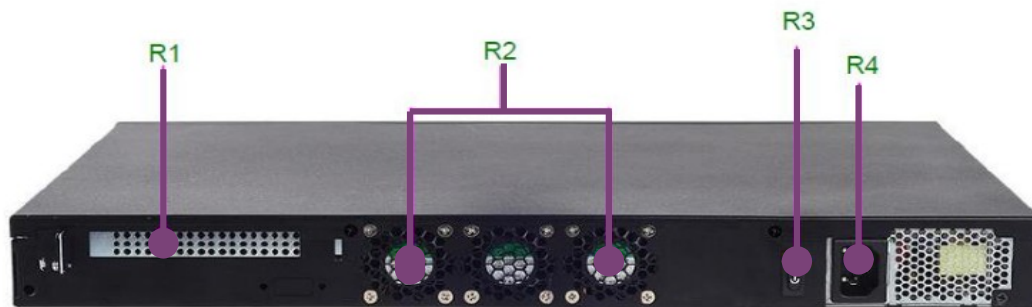
Physical Hardware



Front End

F1 LED Indicators	Keypad Activated
F2 LCM	LCM with 4 x Keypads
F3 Console	1 x RJ-45 Console Port
F4 USB	2 x USB 3.0 Type-A Ports, in double stacked form
F5 LAN	6 x RJ-45 GbE ports
F6 SFP LAN	2 x SFP LAN ports
F7 Additional Nic Module ^[1]	1 x NIC Module Space with PCIe Interface

[1] **F7 Additional Nic Module:** Refer to page 5, section “Custom Configurations”. For additional NIC module options. Default Configuration is an empty PCIe slot.



Rear End

R1 PCIe Expansion	1 x PCIe Expansion slot (Optional)
R2 Fans	2 x Cooling Fans
R3 Power Switch	1 x Power ON / OFF Switch
R4 Power Jack	1 x Power Jack, for connection with power adapter

Product Matrix			
Model	Nimitz 4210D-1MP	Nimitz 6210D-2MP	Nimitz 8210D-5MP ^[1]
Network Grade			
Network Category Recommended	Small <5Gbps	Business / ISP <10Gbps	Enterprise >10Gbps
Performance Characteristics			
DDoS Threshold ^[2] (pps)	1 000 000	2 000 000	5 000 000
Peak Mitigation ^[3] (pps)	~1 500 000	~3 500 000	PENDING
Ingress/ Egress Mitigation	Ingress	Ingress	Ingress
DDoS Attack Vector ^[4]	DNS / HTTP / ICMP / IP Fragmentation / Memcached / NTP / SSDP / TCP / UDP / HTTP3		
DDoS Attack Method	Amplification / Reflection / Flood / Multi-Vector		
Protected Layers	Network / Transport / Application		
Response Type ^[5]	Automatic		
Time to Mitigation	<200 microseconds (<0.2 milliseconds)		
Additional Latency	<200 microseconds (<0.2 milliseconds)		
Management			
Configuration	Telnet / Console (Serial to USB)		
Live attack Notification	SMS / Email		
Logging	Full History Logs 60s Intervals 1hr Windows		
Software as a Service ^[6]	Software Fee \$ 100.00 USD / Monthly \$ 1 000.00 USD / Annually		
Platform			
CPU	Intel® Core™ i3 2C/4T	Intel® Core™ i7 4C/8T	
Chipset	Intel® H110 or C236		
BIOS	AMI SPI Flash BIOS		
Memory Technology	DDR4 2400MHz		
Memory Socket	2 x 288-pin DIMM		
Core Memory (RAM)	2 x 4GB		
SATA Storage	32GB		
Default Configuration I/O			
Ethernet controller	Intel i210 / i210-IS		
Default LAN	6 x GbE RJ45		
Bypass	2 Pairs Gen3		
Console	1 x RJ45		

USB 3.0	2 x Type A	
Additional NIC Modules	+ 1	
Bandwidth (Total)	6Gbps	
Bandwidth (In/Out)	3 / 3 Gbps	
Custom Configurations^{[7] [8]}		
Max Bandwidth (Total)	46 Gpbs	46 Gbps
Max Bandwidth (In/Out)	23 /23 Gbps	23 / 23 Gbps
RJ45 NIC CARDS -NCS2-IGM428A -Intel i350-AM4, 4 ports GbE G3 Bypass, 2 pairs	+ 1 module(s) \$ 177.00 USD	+ 1 module(s) \$ 177.00 USD
RJ45 NIC CARDS -NCS2-IGM808A -Intel i210-AT + PEX8608, 8x GbE G3 Bypass, 4 pairs	+ 1 module(s) \$ 384.00 USD	+ 1 module(s) \$ 384.00 USD
SFP+ NIC CARDS -NCS2-IXM204A -Intel 82599EB ,2 ports 10Gb SFP+, No bypass	+ 1 module(s) \$ 265.00 USD	+ 1 module(s) \$ 265.00 USD
SFP+ NIC CARDS -NCS2-IXM407A -Intel XL710 4x10Gb, 4 ports 10G SFP+, No bypass	+ 1 module(s) \$ 386.00 USD	+ 1 module(s) \$ 386.00 USD
Power and Mechanical		
Power input	AC 90~264V @47~63 Hz	
Type/Watt	220W ATX Single PSU	
Expansion	1 x PCIE*8 Default, 2 x PCIE*4 Optional	
Reset	Reset Button x 1	
Processor cooling	Passive CPU Heatsink	
System cooling	2 x Cooling Fans with Smart Fan	
Physical Specifications		
Dimensions (W x H x D)	438 mm x 44 mm x 321 mm (17.24" x 1.73" x 12.64") 1U	
Weight	7.5 kg (16.5 lbs)	
Mounting	Rack Mount	
1U Slide Rail Kit	Optional	
Environmental		
Storage temperature	-20°C to 70°C	
Operating temperature	0°C to 40°C 32°F to 104°F	
Operating humidity	5% to 90% (non-condensing)	

Certifications		
Certifications	RoHS CE/FCC Class A UL	
Warranty		
Warranty	1 year	
Custom Designs		
[9]	For clients with very large networks or special requirements e.g. Carriers	

- [1] **Nimitz 8210D-5MP:** is currently undergoing design optimizations related to heat dissipation, hardware and performance characteristics will be provided soon. We are currently expecting an absolute minimum performance capability of 5mpps DDoS mitigation.
- [2] **DDoS Threshold (pps):** guaranteed level of protection across all DDoS taxonomies and attack variants.
- [3] **Peak Mitigation (pps):** is a lab metric of Nimitz products tested under maximum load. It is an absolute maximum performance capacity that allows for overhead mitigation in cases of large spikes in pps during an attack. It is not recommended to be viewed as a guaranteed metric for sustained continuous load and may vary depending on networks and type of DDoS attack profile.
- [4] **Attack Vector:** TCP includes attacks such as {Syn}, {Syn, Ack} floods etc...
- [5] **Response Type:** Nimitz default configuration is for automatic detection. Clients are provided with the option to enable/disable Nimitz via cloud interface.
- [6] **Software as a Service (SaaS):** Nimitz physical hardware comes with a monthly subscription, required for the software. Which carry a software license.
- [7] **Custom Configurations:** additional NIC modules will add to final cost of product.
- [8] **Custom Configurations:** refer to page 6. Indicator (F7) represents customizable module.
- [9] **Custom Designs:** Nimitz offers consultation for designing and implementing custom products for clients with very large networks or special requirements. Please contact directly.

Additional Package Content		
Short Ear Rack mount kit w/ screws	+ 1	
Power cable	+ 1	
Console Cable (Serial to usb)	+ 1	
Lan Cable (grey)	+ 1	
1U Slide Rail Kit ^[1]	Optional	

- [1] **1U Slide Rail Kit:** Please mention directly. During the ordering process, in order to receive with shipment.